FIG. 1

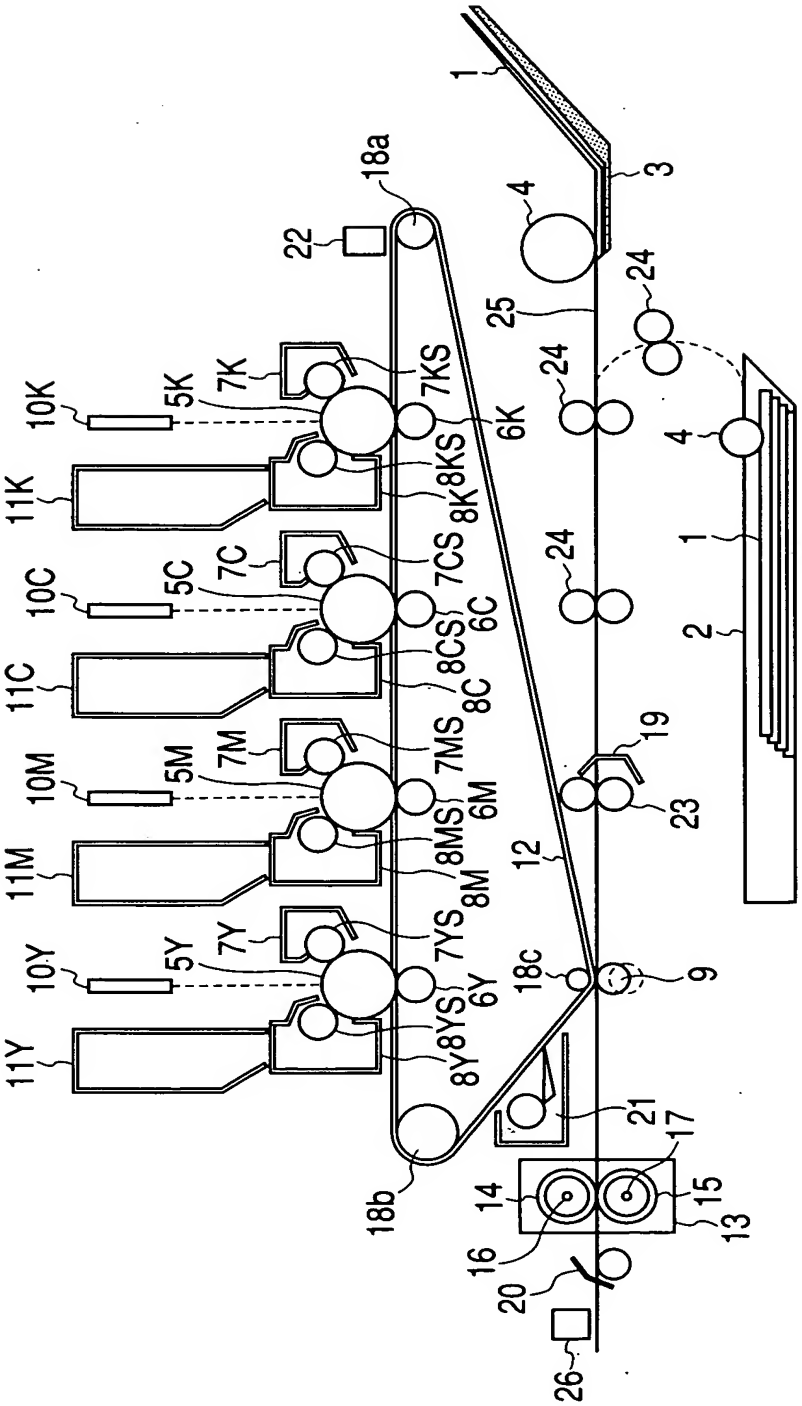

1
3
4
18a
22
24
25
10K
5K
7K
7KS
6K
8KS
8K
11K
10C
5C
7C
7CS
6C
8CS
8C
11C
10M
5M
7M
7MS
6M
8MS
8M
11M
10Y
5Y
7Y
7YS
6Y
8YS
8Y
11Y
19
23
12
18c
9
21
17
18b
14
15
13
16
20
26
2

FIG. 2

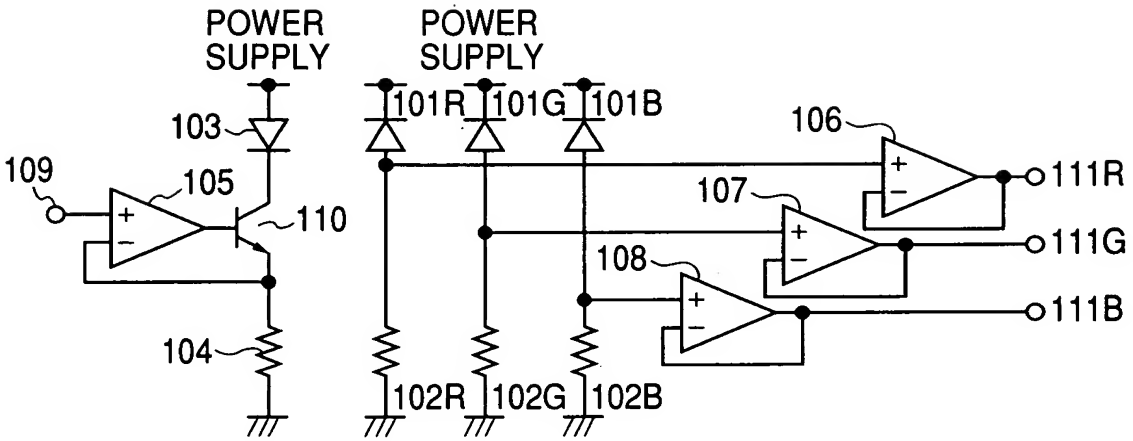

POWER SUPPLY
POWER SUPPLY
101R
101G
101B
103
106
109
105
107
111R
110
111G
108
111B
104
102R
102G
102B

FIG. 3

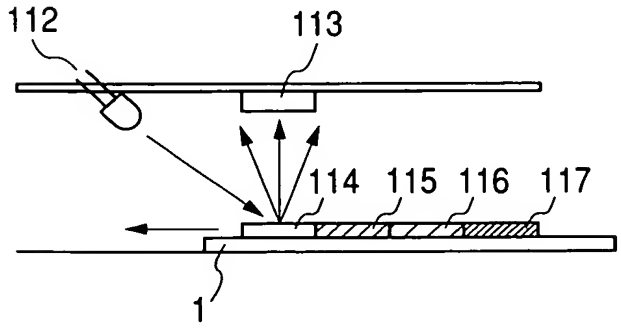

112
113
114
115
116
117
1

FIG. 4A

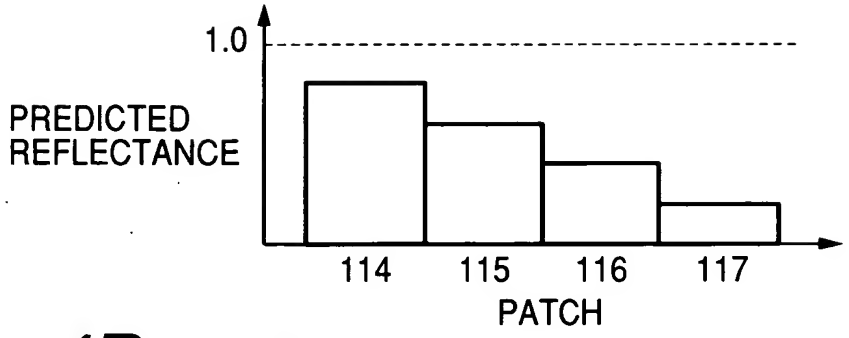


FIG. 4B

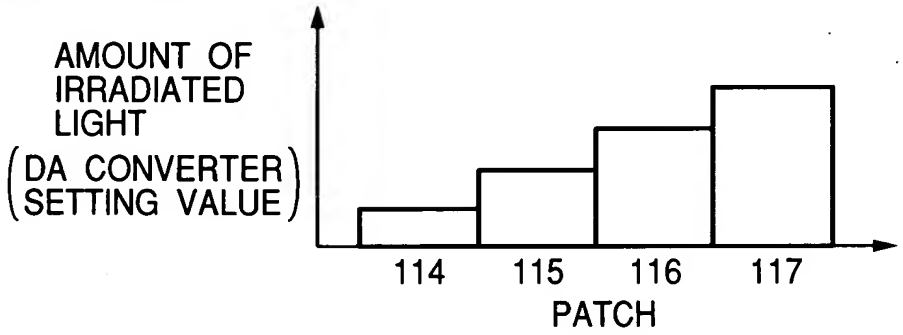


FIG. 5A

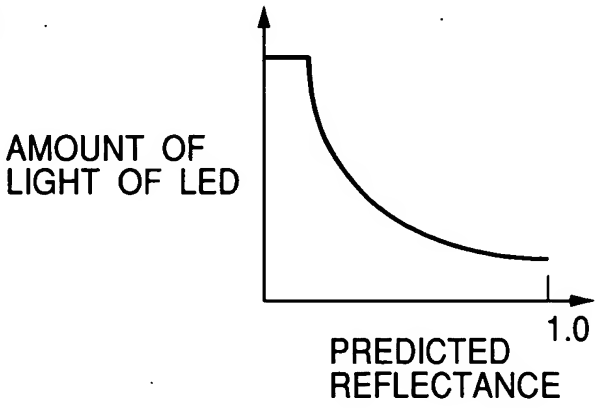


FIG. 5B

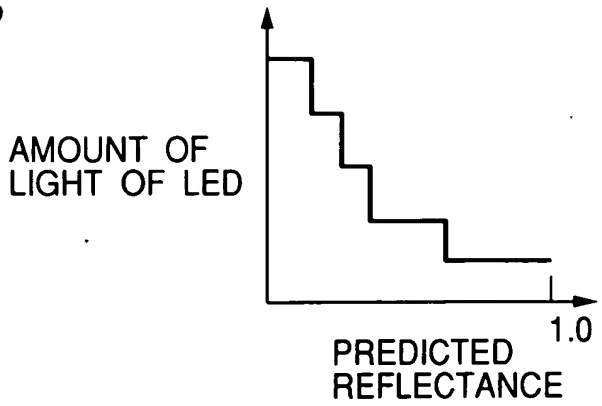


FIG. 6

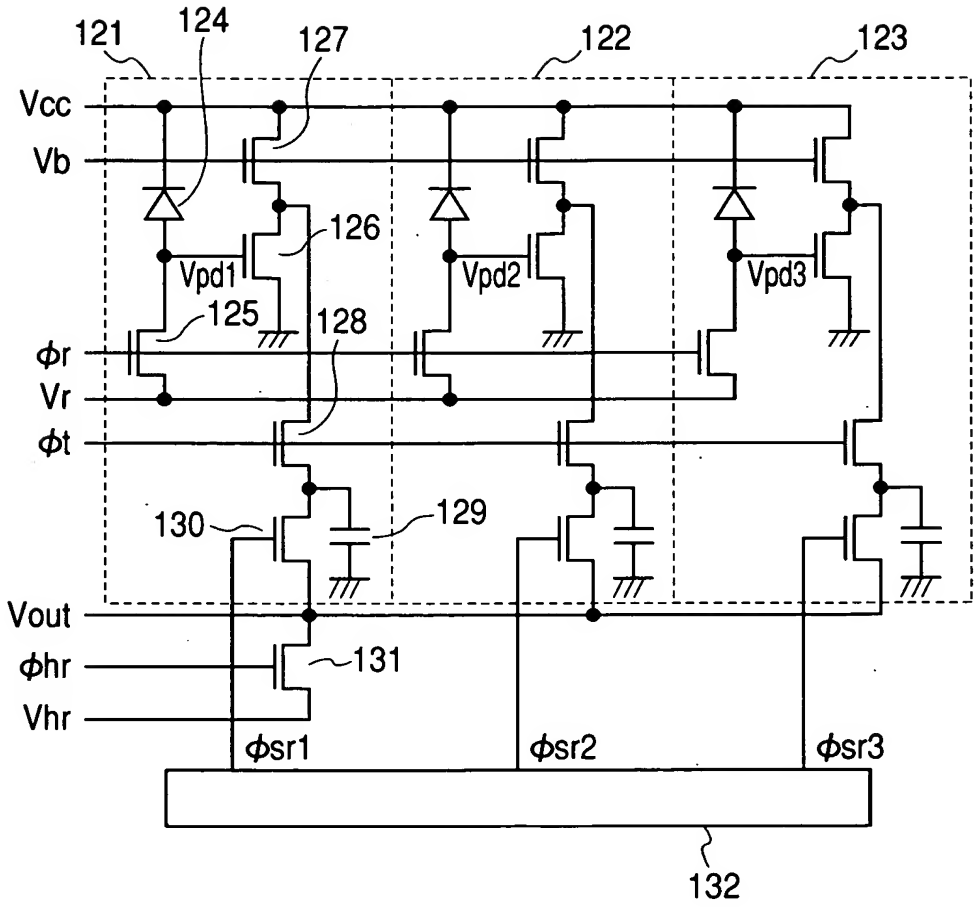

121
124
127
122
123
Vcc
Vb
126
Vpd1
Vpd2
Vpd3
125
128
φr
Vr
φt
130
129
Vout
φhr
131
Vhr
φsr1
φsr2
φsr3
132

FIG. 7

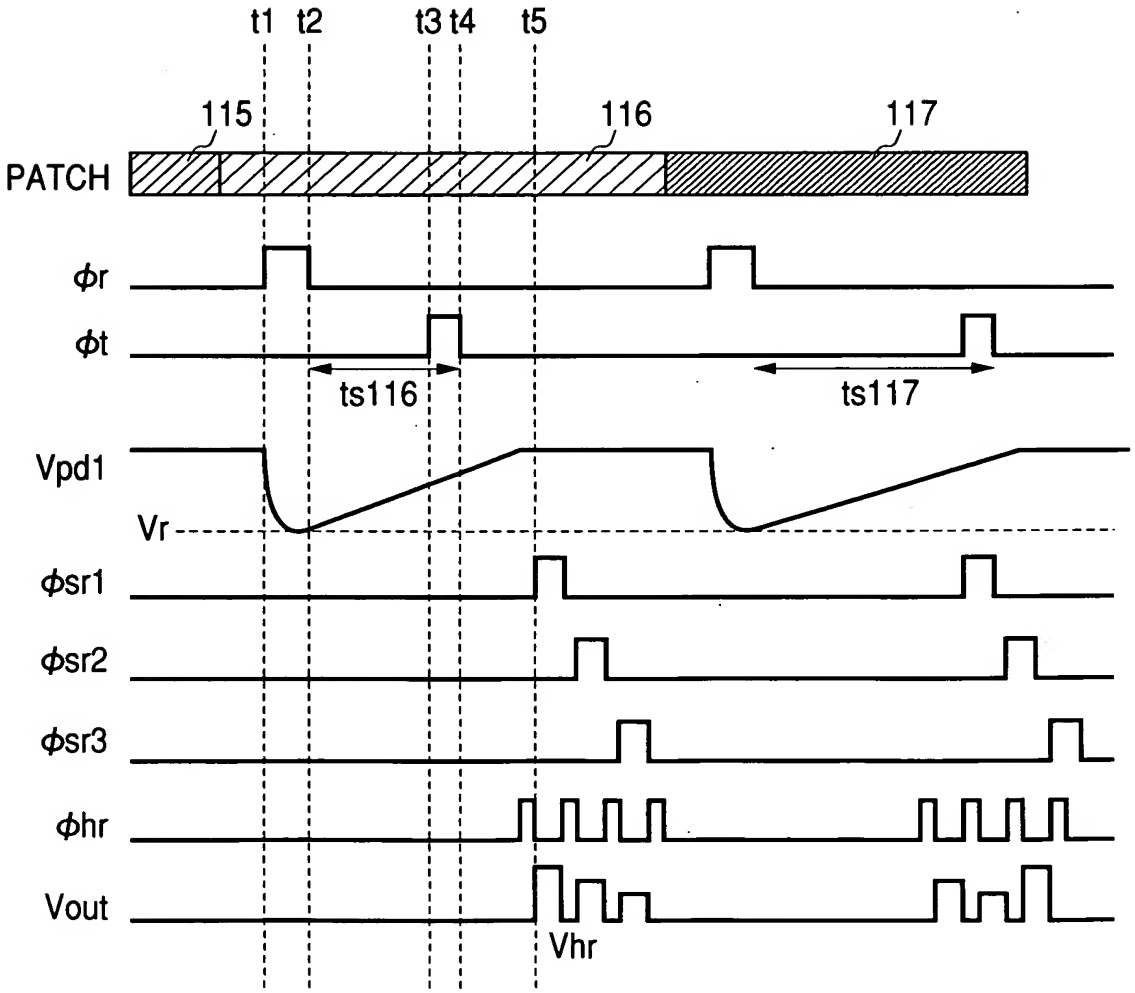

t1
t2
t3
t4
t5
115
116
117
PATCH
φr
φt
ts116
ts117
Vpd1
Vr
φsr1
φsr2
φsr3
φhr
Vout
Vhr

FIG. 8A

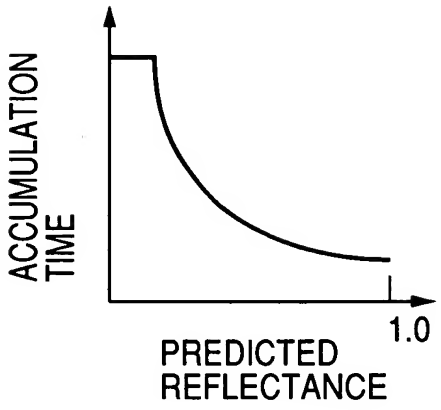

ACCUMULATION TIME
1.0
PREDICTED REFLECTANCE

FIG. 8B

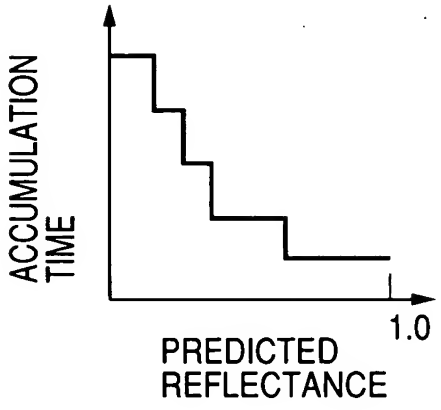

ACCUMULATION TIME
1.0
PREDICTED REFLECTANCE

FIG. 9

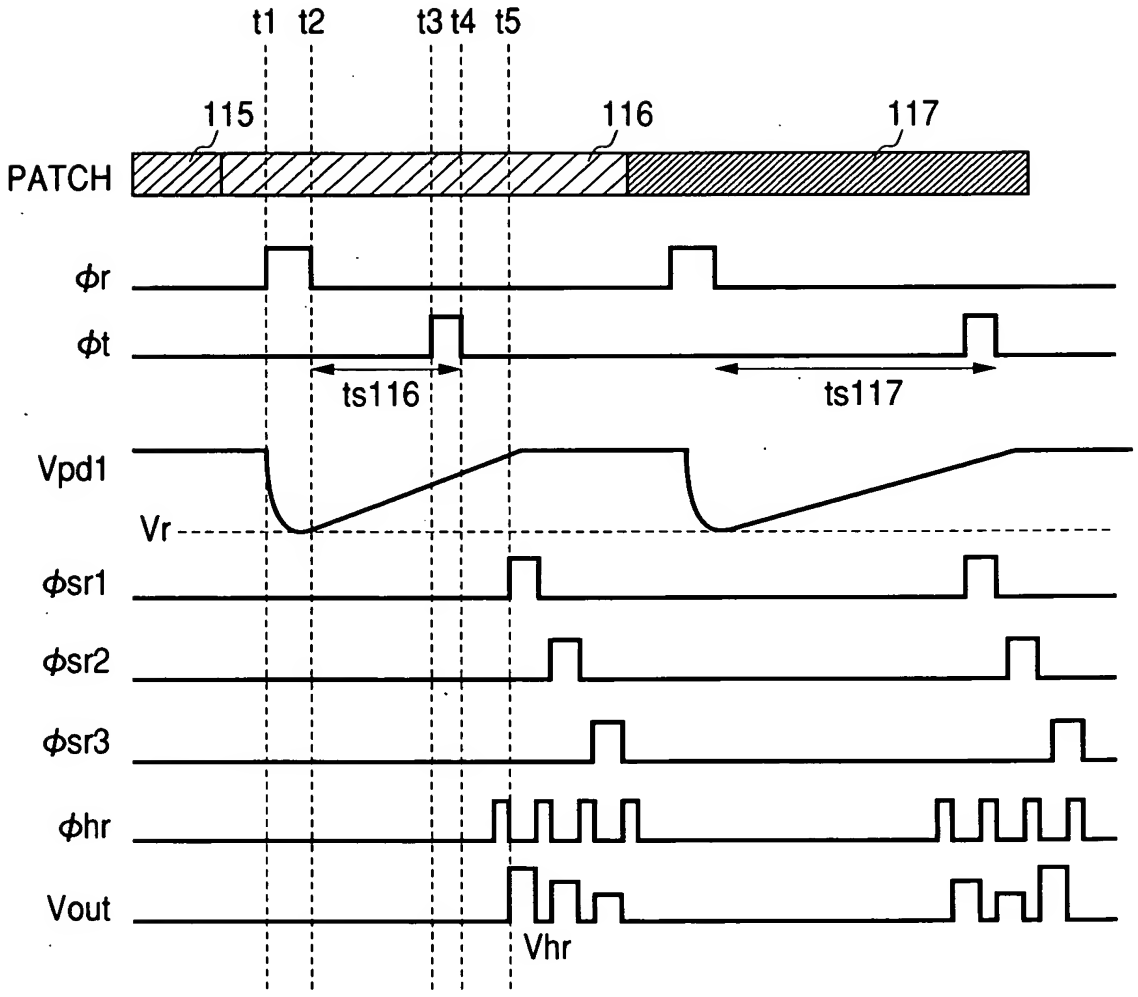

t1
t2
t3
t4
t5
115
116
117
PATCH
φr
φt
ts116
ts117
Vpd1
Vr
φsr1
φsr2
φsr3
φhr
Vout
Vhr

FIG. 10A

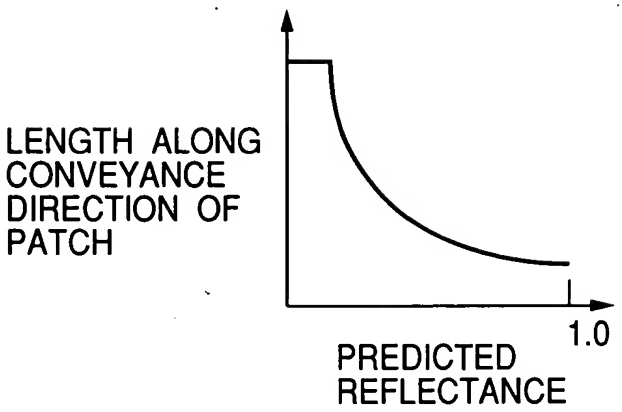


FIG. 10B

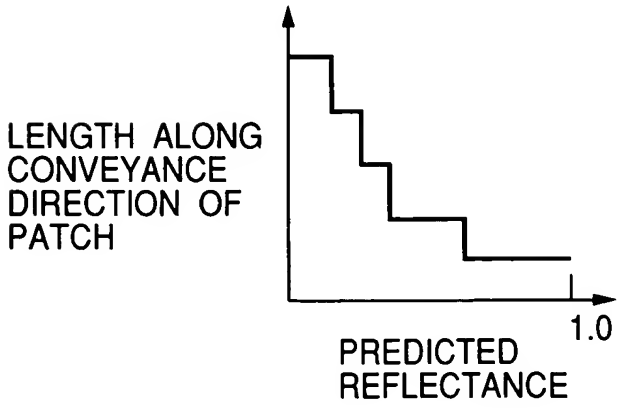


FIG. 11

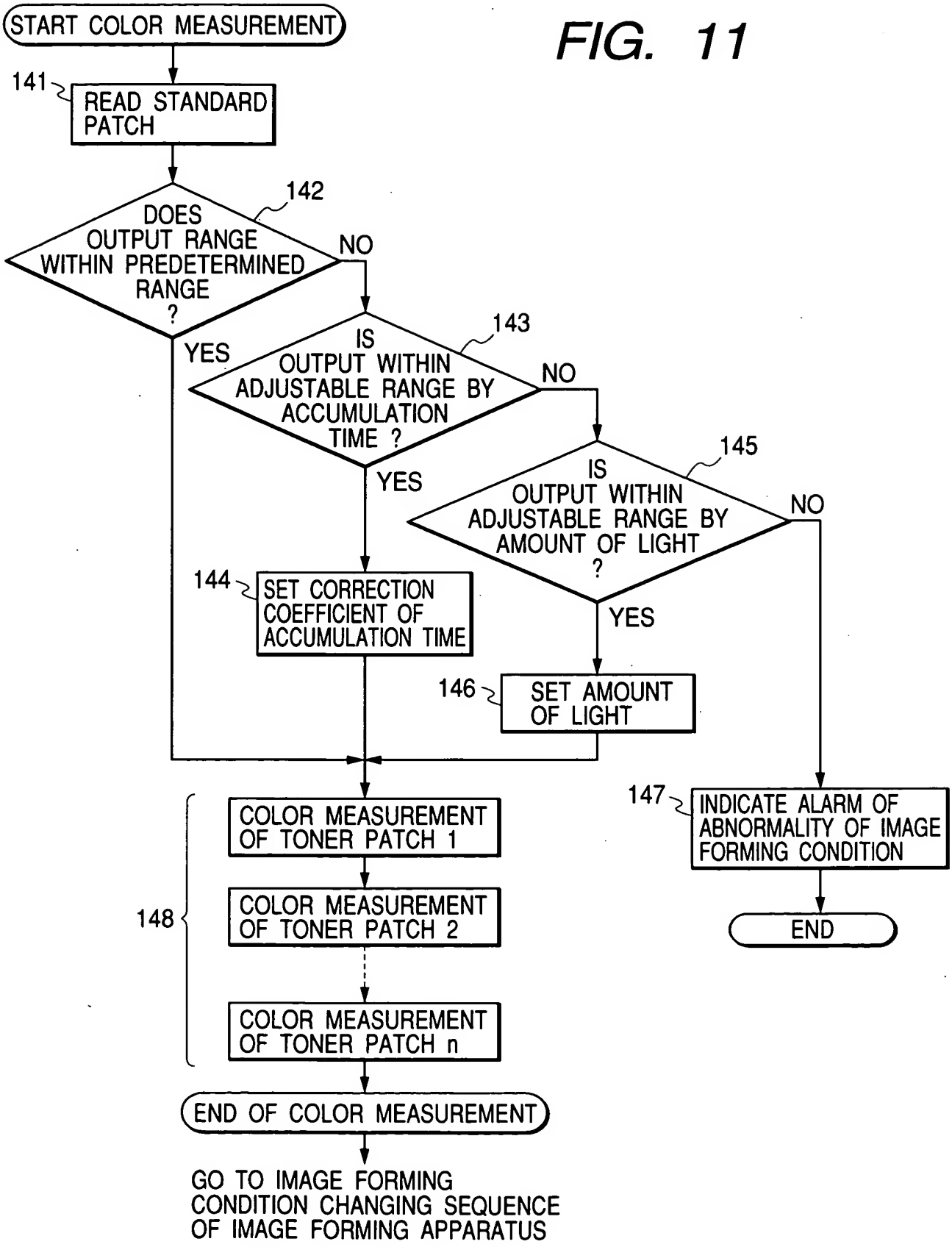

START COLOR MEASUREMENT
141
READ STANDARD PATCH
142
DOES OUTPUT RANGE WITHIN PREDETERMINED RANGE ?
NO
YES
143
IS OUTPUT WITHIN ADJUSTABLE RANGE BY ACCUMULATION TIME ?
NO
YES
145
IS OUTPUT WITHIN ADJUSTABLE RANGE BY AMOUNT OF LIGHT ?
NO
YES
144
SET CORRECTION COEFFICIENT OF ACCUMULATION TIME
146
SET AMOUNT OF LIGHT
147
INDICATE ALARM OF ABNORMALITY OF IMAGE FORMING CONDITION
END
148
COLOR MEASUREMENT OF TONER PATCH 1
COLOR MEASUREMENT OF TONER PATCH 2
COLOR MEASUREMENT OF TONER PATCH n
END OF COLOR MEASUREMENT
GO TO IMAGE FORMING CONDITION CHANGING SEQUENCE OF IMAGE FORMING APPARATUS

FIG. 12

DIRECTORY INFORMATION
FIRST DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOW IN FIG. 11

FIG. 13A

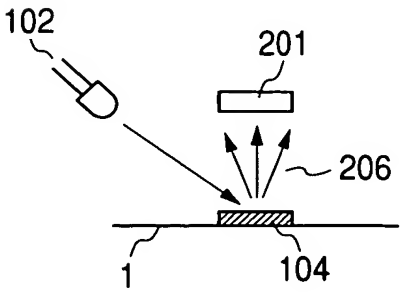


FIG. 13B

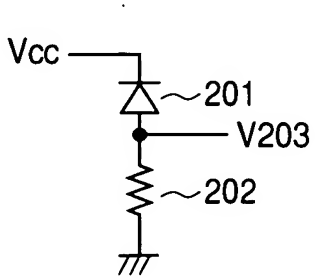


FIG. 14

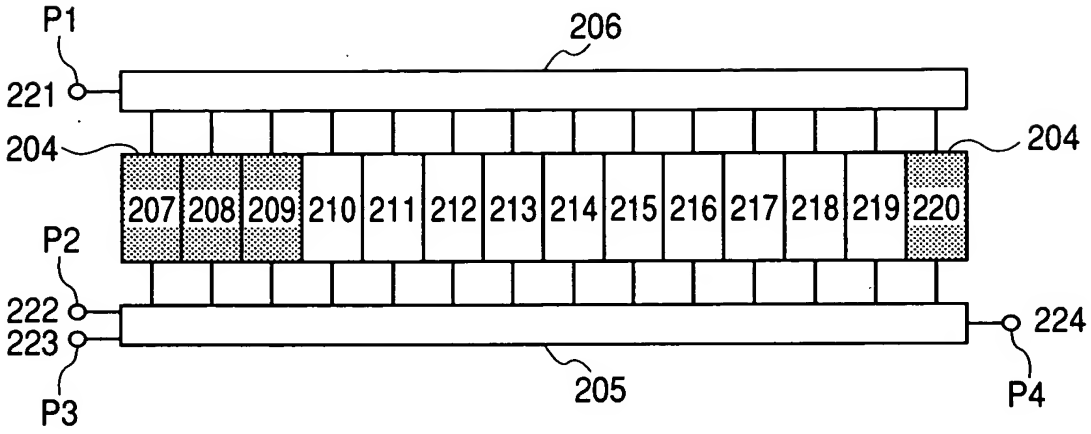

P1
206
221
204
204
207
208
209
210
211
212
213
214
215
216
217
218
219
220
P2
222
223
224
205
P3
P4

FIG. 15

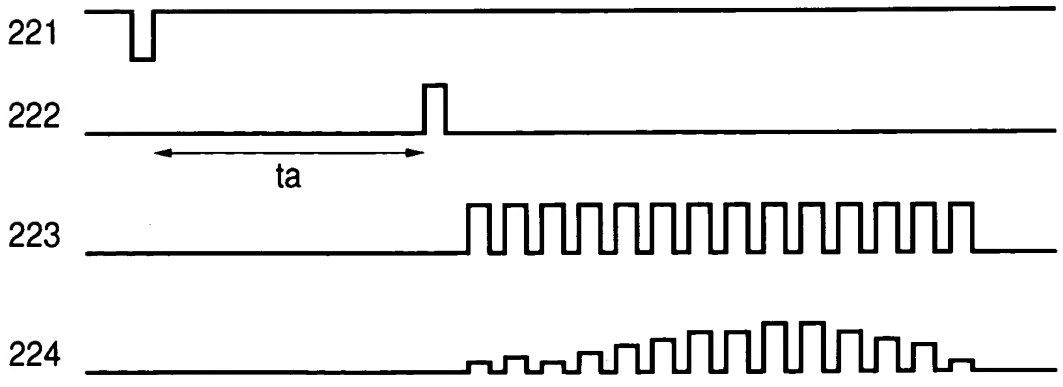
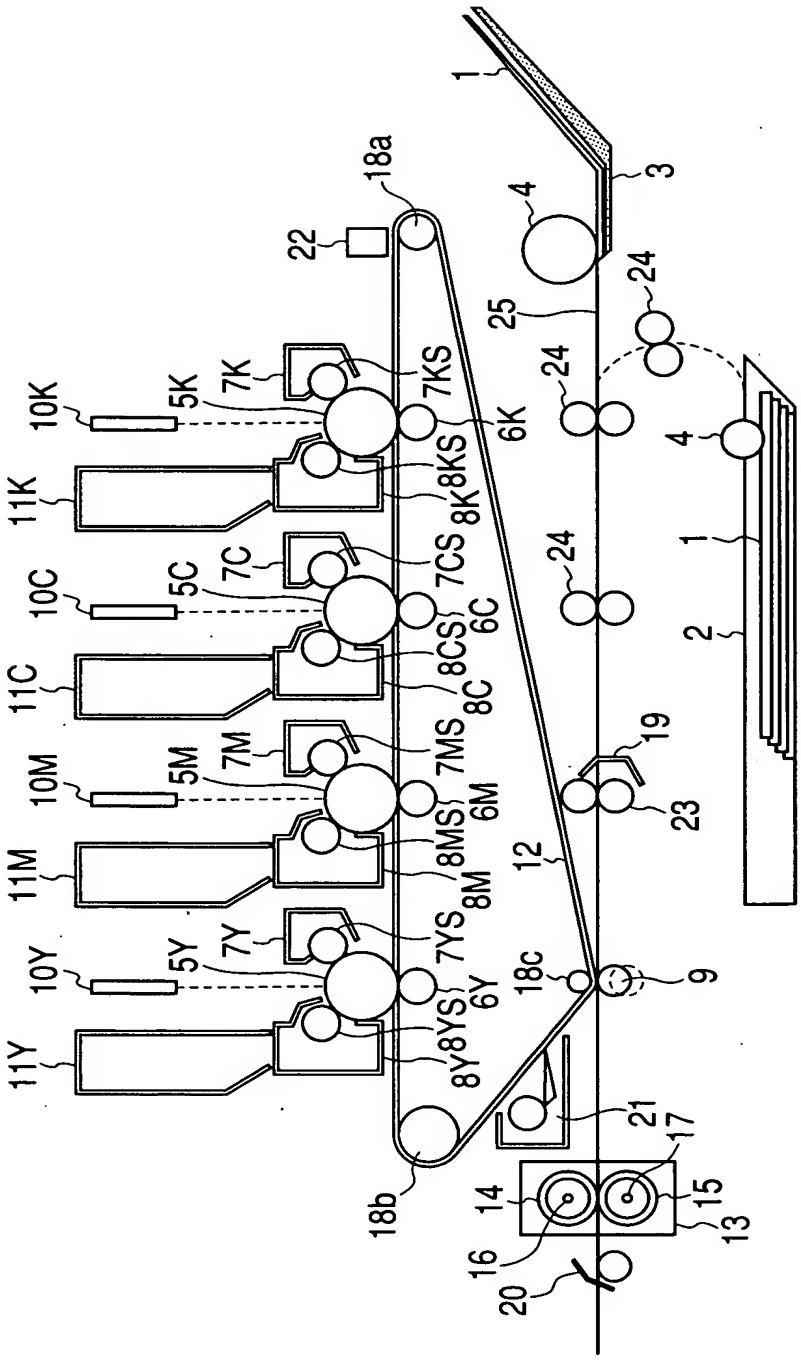

221
222
ta
223
224

FIG. 16


1
3
4
18a
22
24
25
10K
5K
7K
7KS
6K
8KS
8K
11K
10C
5C
7C
7CS
6C
8CS
8C
11C
10M
5M
7M
7MS
6M
8MS
8M
11M
10Y
5Y
7Y
7YS
6Y
8YS
8Y
11Y
19
23
12
18c
9
21
17
18b
14
15
13
16
20
2